SIEMENS

Data sheet 3RV1011-1CA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	For motor protection	
product type designation	3RV1	
General technical data		
size of the circuit-breaker	S00	
size of contactor can be combined company-specific	S00	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	7.25 W	
 at AC in hot operating state per pole 	2.4 W	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
surge voltage resistance rated value	6 kV	
mechanical service life (operating cycles)		
 of the main contacts typical 	100 000	
 of auxiliary contacts typical 	100 000	
electrical endurance (operating cycles) typical	100 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	01/01/2013	
SVHC substance name	Lead - 7439-92-1	
Weight	0.293 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-20 +60 °C	
during storage	-50 +80 °C	
during transport	-50 +80 °C	
relative humidity during operation	10 95 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the current- dependent overload release	1.8 2.5 A	
type of voltage for main current circuit	AC	
operating voltage		
rated value	20 690 V	
 at AC-3 rated value maximum 	690 V	
• at AC-3e rated value maximum	690 V	
operating frequency rated value	50 60 Hz	
operational current rated value	2.5 A	
operational current		

 at AC-3 at 400 V rated value 	2.5 A
at AC-3e at 400 V rated value	2.5 A
operating power	
• at AC-3	
— at 230 V rated value	0.37 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
• at AC-3e	1.5 KVV
	0.07 134
— at 230 V rated value	0.37 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
● at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 60 V	0.15 A
Protective and monitoring functions	
Protective and monitoring functions	
product function	No
product function • ground fault detection	No Yes
product function	Yes
product function	Yes CLASS 10
product function	Yes
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 130 kA 130 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 133 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 133 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 133 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 100 kA 2 kA 33 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 100 kA 2 kA 33 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 10 kA 2 kA 100 kA 100 kA 100 kA 2 kA 2 kA 33 A 2.5 A 2.5 A 0.17 hp
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 33 A 2.5 A 2.5 A 0.17 hp 0.5 hp
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 2 kA 2 kA 33 A 2.5 A 2.5 A 0.17 hp 0.5 hp 0.5 hp

contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit	,
protection of the main circuit	
• at 240 V	none required
● at 500 V	gG 25 A
● at 690 V	gG 25 A
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
required spacing	
 for grounded parts at 400 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
for live parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
type of connectable conductor cross-sections	
type of connectable conductor cross-sections • for main contacts	
solid or stranded	2v (0.5
	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts colid or stranded.	2v (0.5. 1.5 mm²) 2v (0.75. 2.5 mm²)
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
tightening torque	0.9 1.2 N.m
 for main contacts with screw-type terminals 	0.8 1.2 N·m

 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
• for main contacts	M3
of the auxiliary and control contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Rocker switch
Approvals Certificates	

General Product Approval









<u>KC</u>



General Product Approval

For use in hazardous locations

Test Certificates

Maritime application

BIS CRS





Type Test Certificates/Test Report

Special Test Certificate



Maritime application













other

Railway

Environment

Miscellaneous

Confirmation



Special Test Certificate

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-1CA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1CA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1CA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

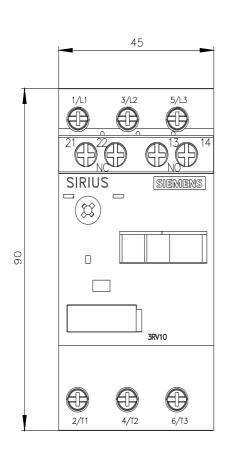
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1CA15&lang=en

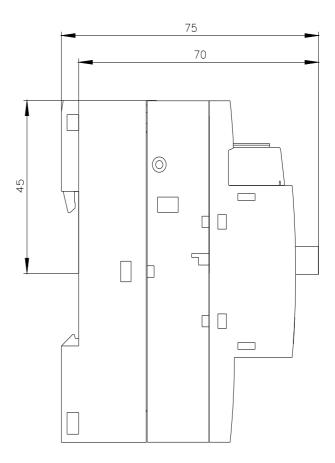
Characteristic: Tripping characteristics, I2t, Let-through current

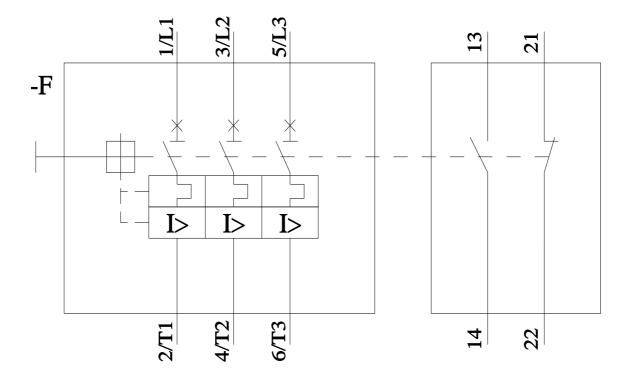
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1CA15/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1CA15&objecttype=14&gridview=view1







last modified: 5/20/2025 🖸